



KING COUNTY
SYSTEMS ENGINEER - SENIOR
DEPARTMENT OF NATURAL RESOURCES
WATER & LAND RESOURCES DIVISION
Annual Salary: \$66,474 - \$84,260
Job Announcement: 05MK5633
Open: 11/16/05 Close: 12/12/05

WHO MAY APPLY: This position is open to all qualified applicants.

WHERE TO APPLY: Required forms and materials *must* be sent to: **Michelle Kobuki, Human Resources, 201 South Jackson Street, Suite 600, M.S. KSC-NR-0600, Seattle, WA 98104.** Applications materials must be received by 4:30 p.m. on the closing date. (Postmarks are NOT ACCEPTED.) Contact (206) 296-1935 for questions regarding this announcement. Download applications from the Internet at: <http://www.metrokc.gov/ohrm/jobs>.

FORMS AND MATERIALS REQUIRED: A [King County application form](#), resume and answers to the supplemental questionnaire (at the end of this job announcement).

WORK LOCATION: King County Environmental Laboratory, 322 West Ewing St., Seattle, WA 98119.

WORK SCHEDULE: This position is exempt from the provisions of the Fair Labor Standards Act, and is not overtime eligible. The workweek is normally 8:00 a.m. to 5:00 p.m., Monday-Friday. Extended working hours may be required on an occasional basis when required by project.

SELECTION PROCESS: Applications will be screened against job requirements and finalists will be contacted for interviews and testing.

JOB DESCRIPTION: This position will manage the hardware, software systems and the infrastructure for information management at the Environmental Laboratory, and function as a technical consultant for system related issues. The primary responsibilities are to determine system requirements and to acquire, install and maintain systems in support of Oracle database applications on a UNIX platform. In addition, the position will maintain file servers, web servers, desktops, peripherals and the underlying network.

PRIMARY JOB FUNCTIONS INCLUDE:

- Plan, design, purchase, install and manage UNIX servers; install and update operating systems; configure RAID drives; configure and manage network; backup and restore systems and Oracle databases; maintain security; and apply necessary OS patches. Maintain documentation of systems and architecture.
- In accordance with the information needs of the Laboratory, purchase, install and configure desktops and peripherals; manage storage; maintain security; and apply patches. Set up, maintain, configure and provide support on Windows 2003 file servers, print servers and

KING COUNTY IS AN EQUAL OPPORTUNITY EMPLOYER. JOB ANNOUNCEMENTS ARE AVAILABLE IN ALTERNATIVE FORMATS FOR PERSONS WITH DISABILITIES.

(206) 296-5209 JOBLINE <http://www.metrokc.gov/ohrm/psd/openings.html> Website Address (206)-296-8535 TTY

- applications. Act as a primary contact for desktop trouble shooting and computer repair, and provide guidance and support for the end users. Manage integration of UNIX and Windows file systems as needed. Provide on-going training to other staff in the work unit as backup support.
- Manage Internet Information Servers and web services. Troubleshoot problems with current web services and establish new services when needed. Install and manage .NET framework. Provide technical information to web application developers in the unit.
 - Manage TCP/IP protocol with the network devices within the Lab. Establish and maintain local area networks; diagnose and troubleshoot network problems; become familiar with the existing Switches and Routers and understand how they are integrated with the County WAN. Establish means of interconnecting desktop applications to databases via ODBC, OLEDB, etc.
 - Work in collaboration with the King County central IT group and ensure compliance with the County policies for security and architecture. Maintain and implement Active Directory objects.
 - Work with the database administrator and the application developers in installing, configuring, and updating the Oracle RDBMS. Establish and troubleshoot the network component unit with Oracle SQL*net. Develop and maintain automated backup and retrieval systems for database exports.
 - Negotiate maintenance contracts for hardware and software systems; develop and review standard operating procedures for system administration functions; develop requirement specifications for IT projects, and coordinate changes and updates to desktops through the Lab IT committee.

QUALIFICATIONS:

- Bachelor's degree in computer science, engineering or a closely related field, or an equivalent combination of experience and education
- Minimum four years of windows server and desktop administration, including Web server management
- Minimum of three years of experience in UNIX system administration, preferably supporting Oracle RDBMS.
- Two years of project management experience in planning, configuring, purchasing, testing and deployment of IT systems
- Sound knowledge of windows shell scripting or other scripting languages for automating routine system administration functions.
- Ability to learn new systems and applications and to understand the functioning of the data interfaces in modern laboratory instruments.
- Ability to work in a team environment, train other staff, and communicate effectively with a wide range of end users and customers

DESIRABLE QUALIFICATIONS:

- Knowledge of or experience with programming languages such as C, Visual basic, Java and .net applications
- Knowledge of or experience with data acquisition from field and laboratory instruments and remote sensors.
- Knowledge of database inter-connectivity, Structured Query Language and reporting software systems
- Knowledge of disciplines such as chemistry, biology, toxicology and environmental sciences

NECESSARY SPECIAL REQUIREMENTS:

- The position normally requires minimal physical skill and effort; however, there may be occasions when employee will be required to lift up to 50 pounds of computer equipment without assistance.
- A valid Washington State Driver's License or the ability to travel throughout the County in a timely manner.

UNION REPRESENTATION: The position is represented by I.F.T.P.E Local 17.

**Supplemental questionnaire
Senior Systems Engineer**

Please limit your responses to no more than one typed page per question. Attach the answer sheets to your application.

1. Describe your experience in performing UNIX server administration, including knowledge of operating system updates and integration with windows-based servers.
2. Describe your experience with windows servers in an active directory environment. Briefly indicate how you managed group policies and security.
3. Describe your familiarity with setting up a web server, and administering web services. Include your experience with the .NET Framework.
4. Indicate the extent of your ability / expertise for the following areas

Product / Skill	Version / Type	Experience (years, months)	Expertise/Ability 0 = None 1 = Completed training only 2 = Competent to use after review 3 = Competent to use on day one 4 = Expert level competency
Windows Server Administration			
Unix Server Administration			
Active directory management			
Web management			
Oracle			
C Language			
Java			
ASP			
.Net			
SQL			
VB			
VBA			
Windows Shell scripting			
Other scripting languages			
Relational databases			
User interface design			